Digital Hydrologic Analysis Data (DHAD)

Description and Background:

The Water Resources Data Base (WRDB) is produced and maintained by TEC's Operations Division under Department of Defense Directive 4705.1, which specifies for "the development of an improved, expanded and automated water resource intelligence data base for the rapid retrieval of selected data." Digital Hydrologic Analysis Data (DHAD) is an online digital representation of the WRDB. Each DHAD "cell" is keyed to a National Imagery and Mapping Agency (NIMA) 1:250,000-scale Joint Operations Graphic. DHAD's highly attributed features are organized into three themes: Existing Water Supply Facilities, Surface Water Resources, and Ground Water Resources. Each theme contains feature and attribute data originally derived from a wide variety of imagery, map, and text sources. Example features contained in a representative DHAD cell include: Towers, Reservoirs, Pipelines, Purification Plants, Streams, Canals, Dams, Water Bodies, Wells, Springs, and Qanats. DHAD feature and attribute data are encoded in NIMA's Feature Attribute Coding Catalog (FACC).

Key Capabilities:

DHAD is designed around standard data formats, coding schemes and lower-end hardware/software configurations. It is currently served via the ArcView Internet Map Server (IMS) display software, and is able to use a corresponding NIMA compressed ARC-Digitized Raster Graphics cell as a backdrop. ArcView IMS permits a suite of basic display, query and analytical functions specific to DHAD. DHAD can be downloaded using ArcExplorer. Also available to download are files to plot 1:250,000 scale hardcopy water resource overlays. DHAD, when fully populated, will offer an automated system to assist military commanders in making logistical water support decisions, primarily in semi-arid and arid regions of the world.

Current Status:

DHAD is posted on TEC's Intelink-S site at: http://www.tec.army.smil.mil and on TEC's Intelink-TS site at http://www.tec.ic.gov.

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